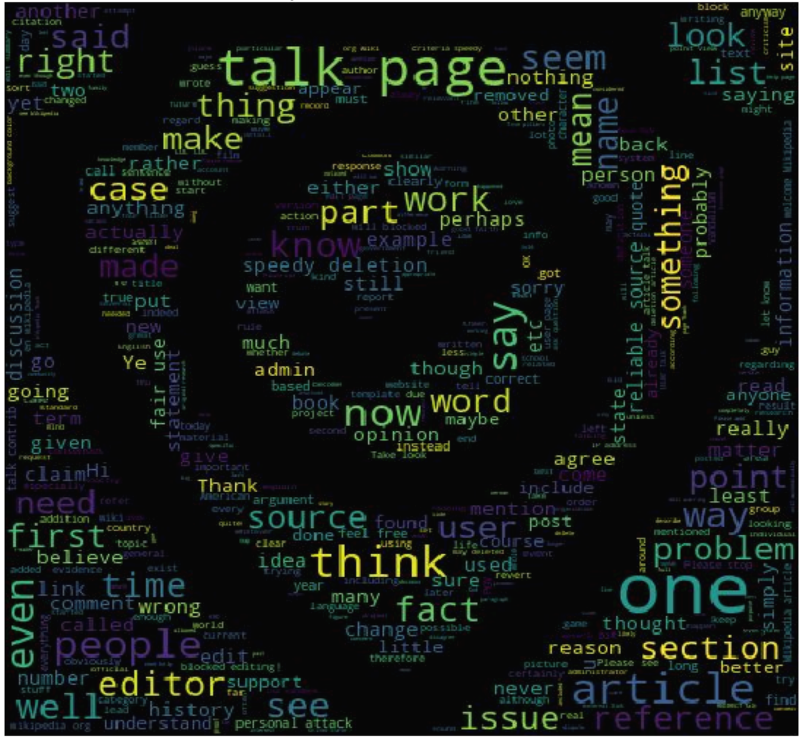
Comment Classification

A step towards secure social commenting.

Problem Addressed :

In a world where social media is a buzz word, We are stepping towards a better and sophisticated cyber world. To contribute towards this, we have addressed **the problem of toxic commenting by categorizing and scoring the comments as per their emotional aspect.**

Words frequented in Clean Comments



Pradyumna Sarode - Model Trainer

https://github.com/pradyumnasarode

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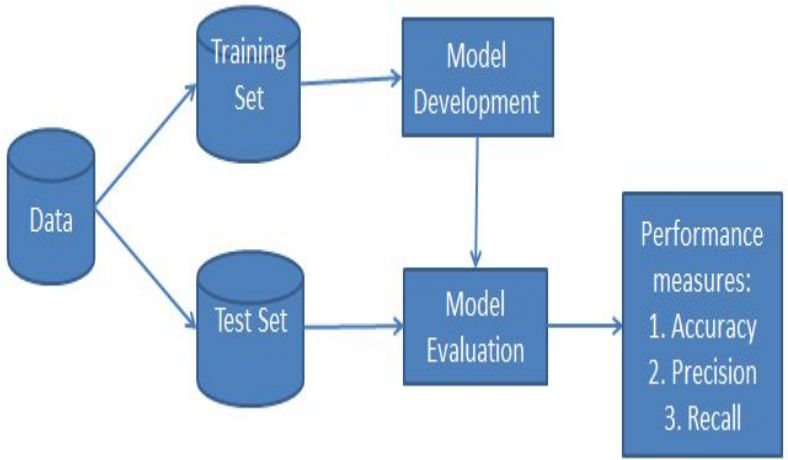
9074168728

Roles and Responsibilities :

- ➔ I hereby have followed Supervised Learning approach .
- ➔ I have trained a model using **Naive Bayes Classification** for classification of various Emotions in the comment.
- ➔ **Extraction of word feature** from the data set to pass in the classifier.
- ➔ **Generated a pickle file** for faster access of the trained data set.



Piyush Manglani - Back-end Developer

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Roles and Responsibilities :

- I have used **Flask Back-end** for the trained model in the Project hereby.
- Used trained data from the model to **show validated results** by using Routing.
- Managed the **Github Repository.**
- The web app created is showing the **connection between frontend template, Naive Bayes Classifier and backend.**

Rachna Agrawal - Data Preprocessor

https://github.com/rachnaagrawal

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Roles and Responsibilities :

- ➔ My contribution was to preprocess the dataset by **cleaning the data**.
- ➔ I have worked on Preprocessing of Data by :
  - **Importing Required Libraries**
  - **Tokenization**
  - **Lemmatization**
- ➔ **Implementation of Scoring Mechanism** for measuring Toxicity of a particular comment.
- ➔ Used Natural Language Toolkit(NLTK) for the **stemming** of sentences and **Lemmatization**.

Aarti Patel - Front-end Developer

https://github.com/AARTI0909

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9752818352

Roles and Responsibilities :

- ➔ My work includes creation of user-facing responsibility using **HTML, Bootstrap, Jinja.**
- ➔ Jinja is used with flask, as it has automatic HTML escaping, which helped in preventing **cross-site Scripting**.
- ➔ **Bootstrap** is used for CSS Framework, Bootstrap encourage consistency across internal tools.
- ➔ Worked on model for the **functionality of feature abstraction** of a particular comment.